

Patent Abstracts of Japan

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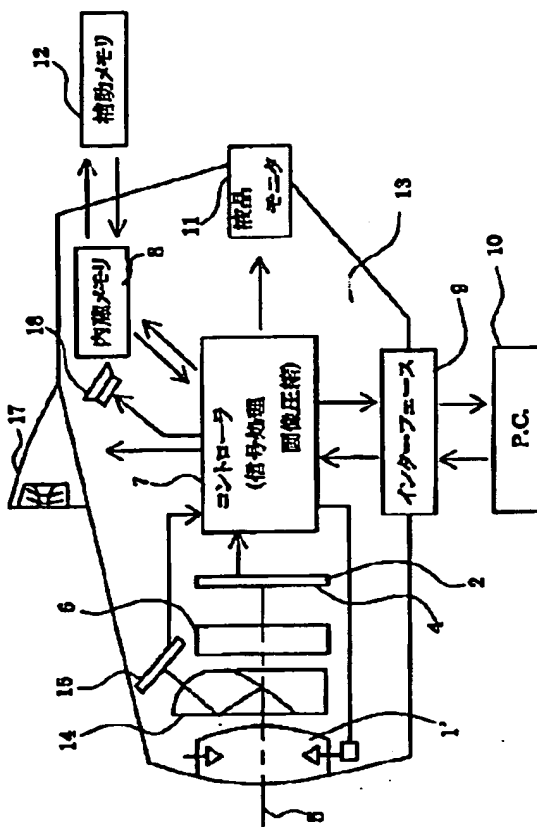
APPLICATION DATE : 16-11-99
APPLICATION NUMBER : 11325685

APPLICANT : OLYMPUS OPTICAL CO LTD;

INVENTOR : GOTO HISASHI;

INT.CL. : H04N 9/07

TITLE : ELECTRONIC IMAGE PICKUP DEVICE
AND IMAGE PICKUP OPTICAL
SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To provide an electronic image pickup device and an image pickup optical system which can reproduce superior image, having its color flare reduced for various natural subjects, using simple constitution.

SOLUTION: This device is equipped with an electronic image pickup element 2, which include pixels having 3 or more different spectral characteristics for obtaining a color image, and image pickup optical system 1 (photographic optical system 1', low-pass filter 6, etc.), which generates a chromatic aberration and form a subject image on the image pickup plane of the electronic image pickup element 2, a high luminance difference detecting means 15, which detects whether there is an area where the luminance difference between adjacent pixels of the electronic image pickup element 2 is larger than a certain level, and an alarm means 18, which gives an alarm if the detecting means 15 detects a luminance difference exceeding the certain level.

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PA - (OLYU) OLYMPUS OPTICAL CO LTD

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PR - JP19990325685 19991116

XIC - H04N-009/07

XP - N2003-578954

AB - JP2001145117 NOVELTY - An optical system generates a chromatic aberration and forms a subject image on the image pick-up plane of an electronic image pick-up element that includes pixels having different spectral characteristics. An alarm is provided if the luminance difference between adjacent pixels of the pick-up element is larger than certain level.

- USE - Electronic image pick-up device.

- ADVANTAGE - The image with reduced color flare, is reproduced efficiently by providing the alarm.

- DESCRIPTION OF DRAWING(S) - The figure shows an explanatory view of the electronic image pick-up device. (Drawing includes non-English language text).

- optical system 1

- image pick-up element 2

- (Dwg.1/1)

IW - ELECTRONIC IMAGE PICK UP DEVICE ALARM LUMINOUS DIFFER ADJACENT PIXEL IMAGE PICK UP ELEMENT LARGER LEVEL

IKW - ELECTRONIC IMAGE PICK UP DEVICE ALARM LUMINOUS DIFFER ADJACENT PIXEL IMAGE PICK UP ELEMENT LARGER LEVEL

NC - 001

OPD - 1999-11-16

ORD - 2001-05-25

PAW - (OLYU) OLYMPUS OPTICAL CO LTD

TI - Electronic image pick-up device provides alarm if luminance difference between adjacent pixels of image pick-up element is larger than certain level